



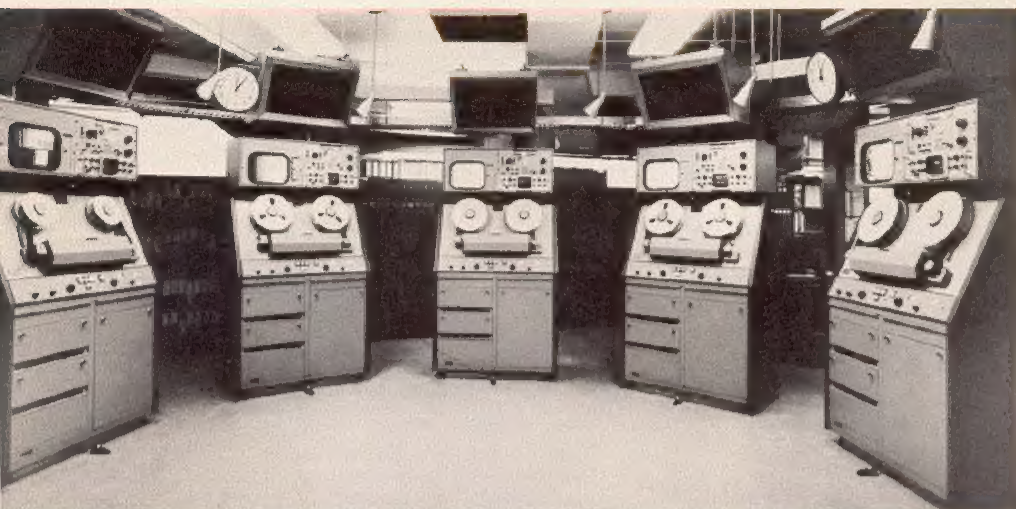
**AMPEX**

**VR-1100**

**Videotape\* Television Recorder**

*A value engineered recorder representing the state-of-the-art  
in a basic transistorized VTR*





Canadian Broadcasting Corporation. Broadcast Delay Center, Winnipeg, Manitoba.

### AMPEX VR-1100...

*An outstanding solid-state VTR combining new engineering excellence with time-proven design features to give you state-of-the-art performance, reliability, and economy of operation now...and for years to come.*

## Pacesetting VTR in a completely self-contained convenience package

### A Performance-Proven VTR

As a basic Videotape Recorder the VR-1100 has no equal. At a cost substantially below any other similar recorder, you get excellent picture quality; simplicity of operation; two speed operation — 7½ and 15 inches per second; recording time up to three hours with full interchangeability and compatibility with all other standard broadcast Videotape Recorders.

### Designed to Accept Years-Ahead Performance Features

The modular transistorized design of the VR-1100 provides for the addition of a full range of Ampex VTR accessories assuring you complete state-of-the-art performance for years to come. Accessories can be factory installed at the time the recorder is purchased or added later as you need them.

### Built-In Reliability

With its full transistorization, compactness, rugged construction, and built-in convenience features, the VR-1100 is the recorder selected by discriminating operators who rely upon a VTR for consistent, high quality performance with an absolute minimum of maintenance.

### Stands The Test of Comparison

The VR-1100 offers in one package the outstanding quality and exceptional value that broadcasters want (and need most) in a Videotape Recorder. The rigid

performance specifications of the VR-1100 invite comparison with any other VTR available. When you have considered all your video recording needs, you, too, will find that the VR-1100 does everything you want a Videotape Recorder to do—and does it superbly!

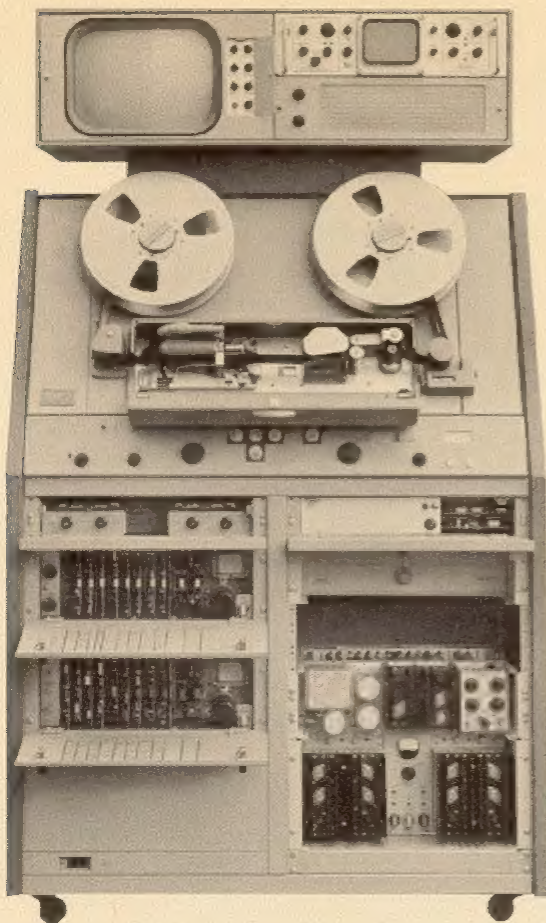
### A Product of Experience

The VR-1100 is a product of Ampex's unsurpassed experience in the manufacture of high quality Videotape Recorders. Throughout the world more than 1500 Ampex VTR's are in operation serving broadcasters, education, industry, medicine, the military, space programs and private research centers. The VR-1100 is designed and built to broadcast specifications and since its introduction, has received the greatest rate of customer acceptance of any Videotape Recorder since Ampex invented the original VTR.

### Fully Guaranteed and Backed by Worldwide Ampex Service

The VR-1100 is guaranteed for your complete satisfaction. And backing the VR-1100 are strategically located sales and service offices throughout the world ready to provide immediate assistance ranging from initial installation to routine maintenance by trained Ampex Field Engineers. Also, complete training facilities are available in Redwood City, California, Reading, England, and Böblingen, Germany, for all Ampex customers.





### Two-Speed Operation

A simple switch change gives you  $7\frac{1}{2}$  (19 cm/sec.) or 15 (38 cm/sec.) inches per second operation and produces full broadcast quality pictures at either speed with full interchangeability and compatibility with tapes recorded on standard broadcast VTR's.



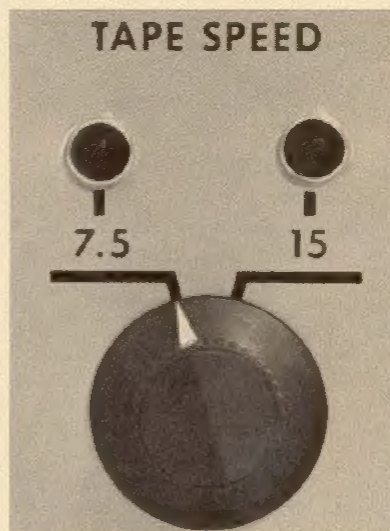
## OUTSTANDING VALUE FEATURES... FOR ALL BROADCASTERS

- Perfect picture quality
- Simplicity of operation
- Recording time up to three hours
- High reliability
- Minimum maintenance and adjustment
- Compactness

Weights half as much as previous standard broadcast VTR's

Occupies approximately half the floor space of previous broadcast VTR's

- Low power consumption
- Low heat dissipation
- Economy of operation



### Modular Plug-In Construction

The electronic circuitry of the VR-1100 is of modular printed circuit construction on pre-tested fiberglass epoxy circuit boards, which can be easily removed for routine maintenance. Illustrated on the interior of each cover panel are the board number, test points and adjustment points. An extender board is provided to permit operation of the circuit board in an external position for quick service accessibility.



## AMPEX VR-1100 .....

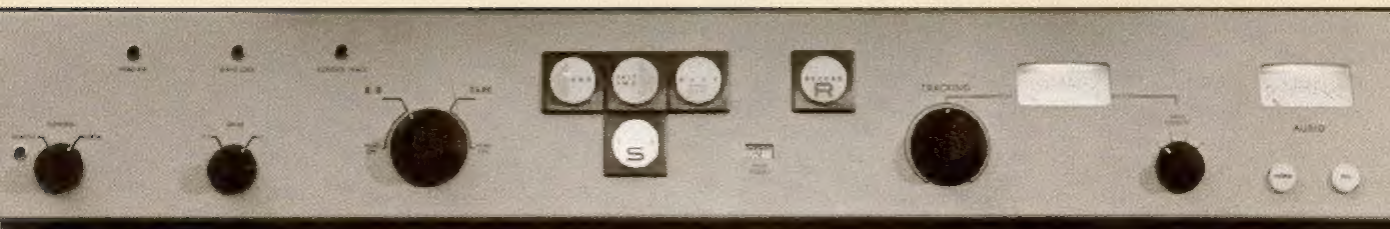


### Precision Top Plate

The time-proven, precision top plate of the Ampex VR-1000 series VTR's has been incorporated into the VR-1100 design, guaranteeing extremely stable and mechanically perfect operation. Hundreds of VR-1000 series top plates have provided over 10,000 hours service each and are still performing flawlessly.

### Simplified Controls

The control panel design has reduced to a minimum the number of controls necessary to operate the VR-1100. Operating controls are clearly marked and are completely interlocked to prevent conflicting functions or improper operation. Meter and indicator lights are arranged to enable the operator to quickly determine the proper operating condition of the VR-1100.

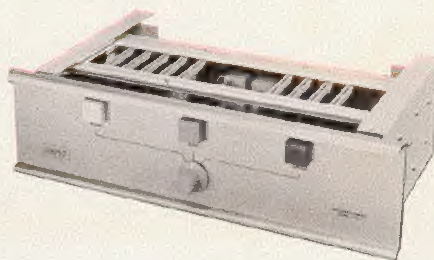
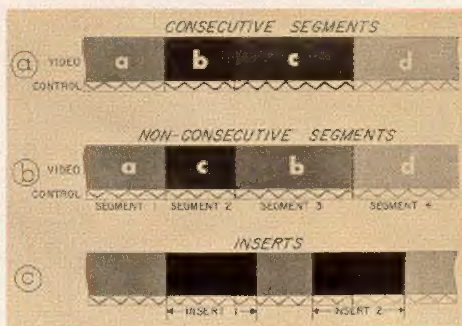




*Clearly a product of advanced engineering... so reliable that the only way to improve it is to add Ampex accessories. For full editing flexibility and production versatility Ampex offers an unsurpassed line of companion accessories to the VR-1100*

*Many of these accessories are exclusive with Ampex... all are available with the Ampex VR-1100*

The Electronic Editor permits assembly of program material in consecutive or non-consecutive segments. New material can be inserted at any tape segment.



#### **Ampex Electronic Editor**

The unique Electronic Editor permits instant editing without physical cutting or splicing of tape. It gives you a precision method of adding or inserting any material with savings in both time and tape. With the Electronic Editor it is possible to program from all sources without restriction as to time or location: live, tape, slide, film, or remote.

#### **Ampex Intersync\* Television Signal Synchronizer—**

The completely transistorized Intersync unit provides horizontal and vertical stability with local sync. All television production techniques such as split screens, wipes, dissolves, mattes, supers, and A-B rolls are made possible on tape with the new Ampex Intersync unit. In addition, Intersync provides for the integration of the color accessory for the VR-1100.

**Color... Ampex Colortec\*** with the appropriate VR-1100 accessories assures direct color recovery capability. It meets all NTSC color tape standards and provides full bandwidth luminance and chrominance signals in color and monochrome.

**Vertical Lock** — Frame locks the recorder output to the studio sync allowing smooth transitions from tape to studio signal by vertical interval (no-roll) switching and paves the way for the addition of the Electronic Editor Accessory.

**Amtec\* Time Element Compensator** — The time element compensator eliminates picture geometric distortion from all causes — skewing, scalloping, quadrature, essing and waterfall and automatically accomplishes line by line compensation of timing errors in the composite video signal.

**Cue Channel** — The transistorized Cue Channel Accessory provides a non-program audio track for cueing tones, program director's notes, editing instructions and actuation of automatic controls.



**Monitoring Facilities** — The monitoring facilities provide high quality video, audio and waveform monitoring — available in several configurations for over-recorder mounting, rack mounting or for custom mobile installations.

**Channel Equalizer Accessory** — Provides full channel equalization for previously recorded tapes.

**Remote Controls** — Accessory control panels are available to provide complete remote operation of the VR-1100 transport controls: Play, Fast Forward, Rewind, Stop, Record, Video Level, Pedestal and Sync Level.





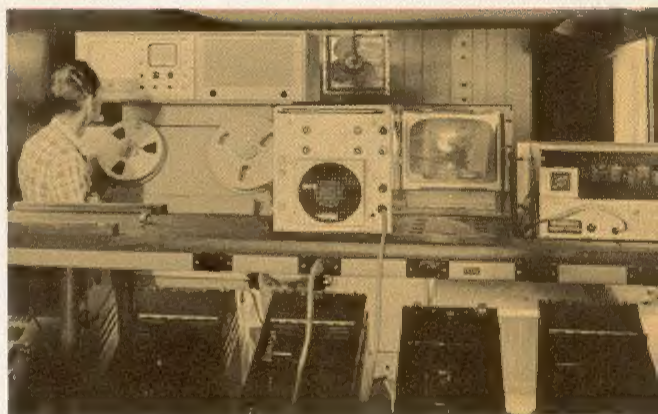
WTVT-TV Tampa-St. Petersburg, Florida, VR-1100 equipped mobile video tape cruiser.

**Typical Applications of the VR-1100** in a growing number of tape installations in the United States and around the world

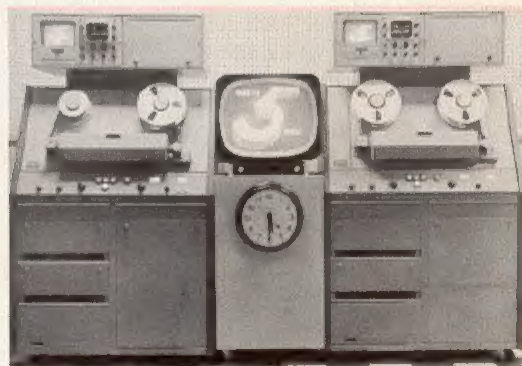
*Performance-proven VR-1100 holds a proud record of customer acceptance and satisfaction*



VR-1100 installation. Rediffusion, Hong Kong, BCC.



Inside WTVT-TV mobile tape cruiser.



WKRQ-TV Mobile, Alabama

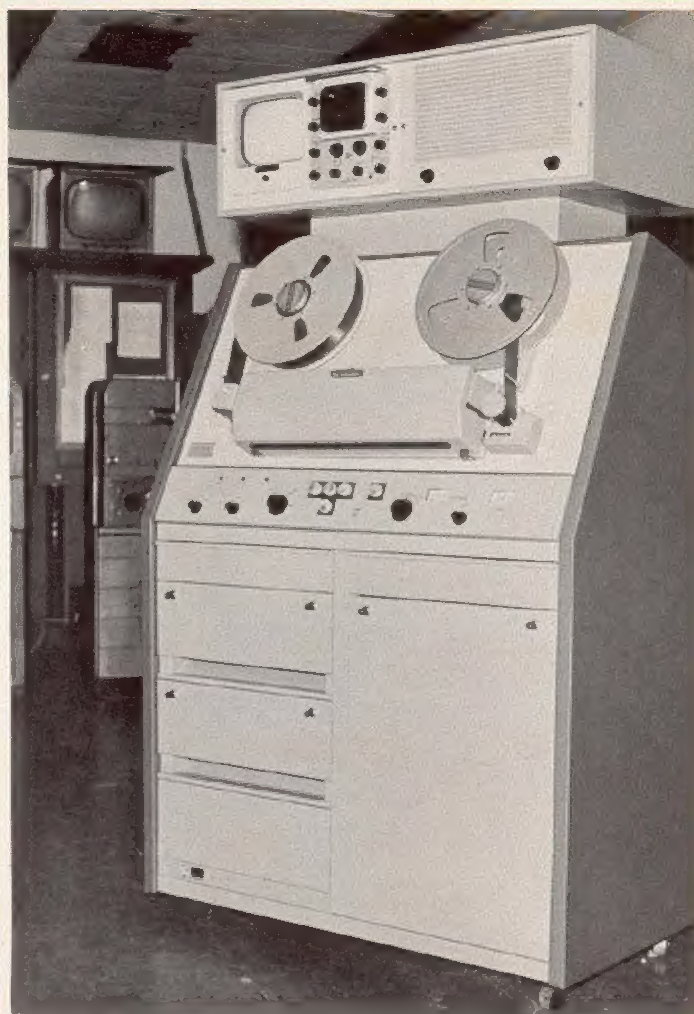




KAKE-TV Wichita, Kansas



University of Utah, Salt Lake City.



WISH-TV Indianapolis, Indiana



Campbell-Ewald Advertising, Detroit, Michigan.



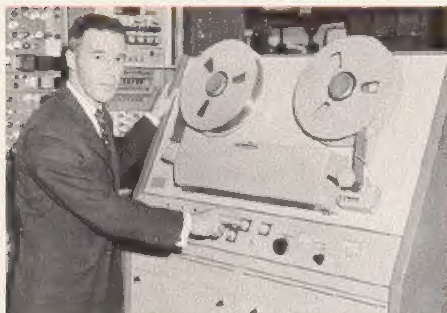
Modern mobile cruiser is ready for any taping assignment by WCCO-TV, Minneapolis, Minnesota



Inside WCCO-TV mobile video tape cruiser.



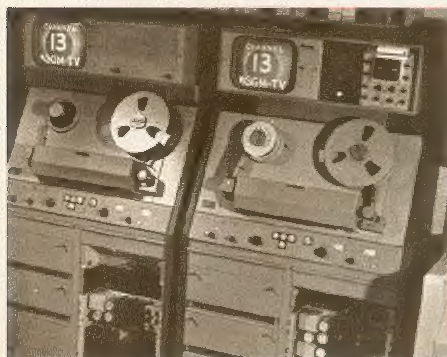
**The finest television products  
...from AMPEX**



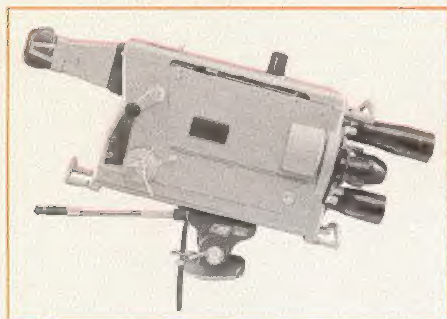
CFCM-TV Quebec, Canada

*"High quality video recordings and reliable performance are vital to our operation. We bought the VR-1100 to ensure this performance on a day in and day out basis, with a minimum of maintenance and adjustment. We are delighted with one of its many extra bonuses ... the lowest power consumption of any full fledged machine in Canada."*

JEAN A. POULIOT, P. Eng.,  
General Manager, CFCM-TV, Quebec



KSGM-TV Albuquerque, New Mexico



This Marconi Mark IV 4 1/2-inch image orthicon television camera and a complete line of associated television equipment is distributed in the United States exclusively by Ampex Corporation.

**Strategically located sales offices offer  
Ampex customers immediate service**

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TWX 305-723-1557

Holiday Office Center  
3322 S. Memorial Parkway  
Suite 65  
Huntsville, Alabama  
881-4271  
TWX 205-881-0776

Engineering representatives in principal cities throughout the world.



**AMPEX CORPORATION**  
VIDEO / INSTRUMENTATION DIVISION  
401 Broadway • Redwood City • California • 94063

Term financing and leasing arrangements for the VR-1100 are available. Ask your Ampex representative about convenient credit terms.





## VR-1100/PB Reproducer

Besides its availability as a standard one piece broadcast record and playback machine, the VR-1100 Videotape\* Recorder is also available, for your added convenience, in the configurations described below.

### Playback-only recorder

- Full broadcast compatibility
- Superb picture quality
- Modular transistorized design
- Simplicity of operation
- High reliability
- Record capability available
- Accepts complete range of Ampex VTR accessories
- Standard VR-1100 playback specifications
- Optional monitoring facilities available

Ampex's VR-1100/PB provides an outstanding video playback unit for those installations that do not require recording capability. Using the performance-proved standard VR-1100 design, the VR-1100/PB provides outstanding picture quality, simplicity of design, high reliability, two speed operation and full tape interchangeability and compatibility with all four-headed video recorders.

All Ampex VTR accessories, including Colortec® direct color recovery unit, can be added when desired. And . . . if the record capability is needed at a later date, this facility can be fully installed on practically a plug-in basis, making the unit a standard VR-1100.

**Size:** Same as standard YR-1100

VR-1100/2 ▶ ▶ ▶ ▶ ▶

Both Ampex VR-1100/PB Reproducer and Ampex VR-1100/2 Recorder-Reproducer are available in three basic standards:

405 lines, 50 cps      525 lines, 60 cps      625 lines, 50 cps



## Portable Videotape Recorder

### A sectionalized unit

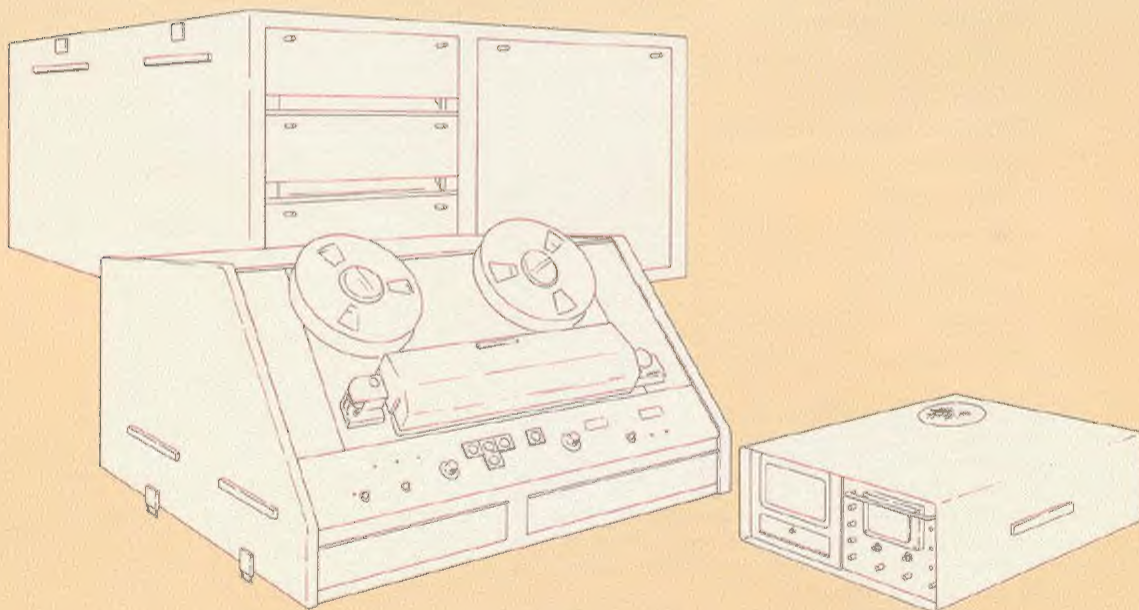
- Complete record and reproduce capabilities
- Convenient small package
- Full broadcast compatibility for studio and mobile use
- Standard VR-1100 specifications
- Full line of Ampex VTR accessories available

The Ampex VR-1100/2 Recorder-Reproducer is a complete VR-1100 sectionalized for use as a studio and remote recorder. The complete recorder is contained in two compact sections with interconnecting cables. For studio use, the sections join together to form a studio console; for remote work, the sections

can be separated for convenient portability and side by side operation. The two sections are joined by "quick-disconnect" junctions for ease of assembly. A portable monitoring package is available as an accessory.

The VR-1100/2 Recorder-Reproducer provides a convenient method of obtaining complete record and reproduce capabilities at either studio or remote locations. All Ampex VR-1100 accessories are available for the VR-1100/2.

**Size:** Transport: 42" wide, 24" deep, 29" high  
Electronics: 42" wide, 24" deep, 32" high  
Monitoring: 21" wide, 20" deep, 13" high



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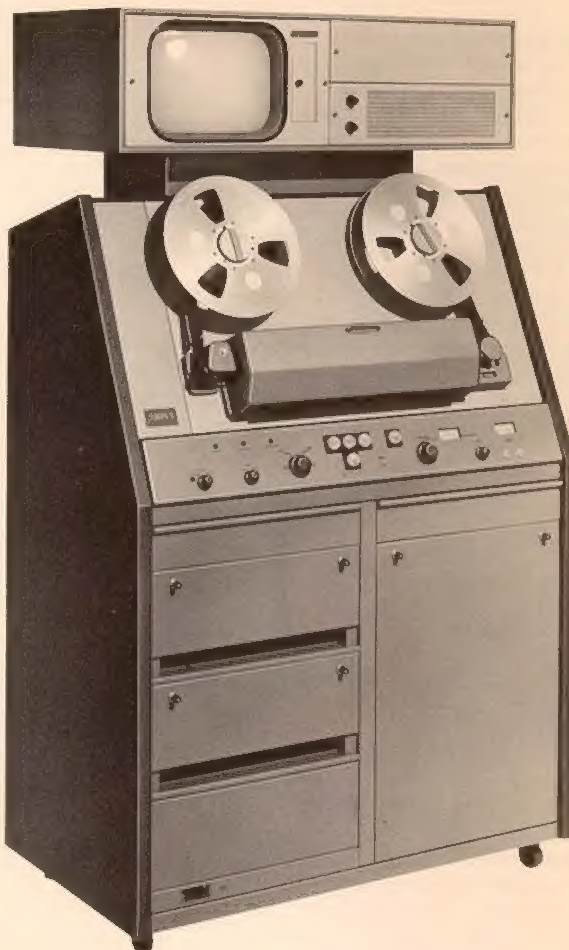
# AMPEX VR-1100 / VR-1100E Videotape Television Recorders

Ampex created the **VR-1100 Series** to provide basic broadcast quality recording and playback in monochrome . . . plus the capacity to accept many production accessories. The VR-1100 Series is not a compromise, despite its moderate cost. All of the quality you expect of an Ampex Videotape Recorder is there . . . the same quality that is now serving stations and networks throughout the world. Monitoring facilities for the VR-1100 are contained in the monitor bridge; you can specify which combination of video, waveform, and audio monitoring units you need.

The **VR-1100E** Videotape Recorder is electronically identical to the VR-1100; monitoring facilities are extra-cost options, the recorder is housed in an attractive, wheelable, walnut-grained cabinet. It is easily moved throughout the studio and can be installed in a compact van. Both recorders have been designed for maximum reliability, ease of operation; both accept a wide range of accessories, most on a plug-in basis.

## **VR-1100 / VR-1100E Features:**

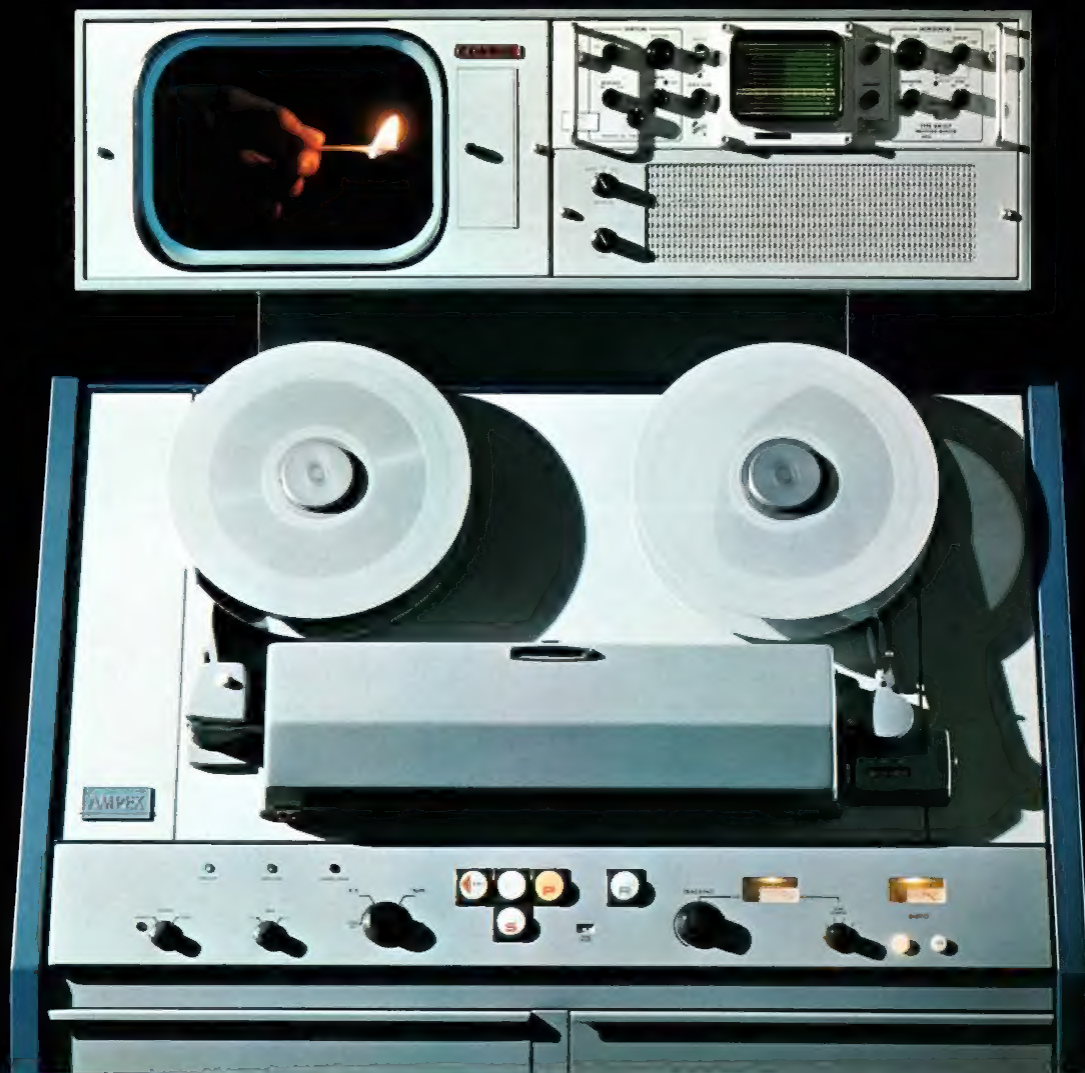
Broadcast quality at a moderate price ☐  
Proven electromechanical design and solid-state electronics ☐  
Fully compatible with all other 4-head recorders ☐  
Simple to operate ☐  
Easy to maintain ☐  
Small, light weight ☐  
Accepts wide range of Ampex accessories, including the Electronic Editor ☐  
Recording time up to three hours on a reel ☐  
Low power consumption ☐  
Low heat dissipation ☐  
Two-speed operation ☐



**Low initial cost, can be  
expanded to meet virtually every need!**



now you can  
convert your  
Ampex VR-1100 to  
striking high-band color



The new Ampex Color Conversion Kit now offers broadcasters high-band capability with existing Ampex tube-type and solid state monochrome recorders. □ Color programming comparable to the best! □ This *all*-band color and monochrome kit includes switchable signal system (featuring famous Ampex high-band color), solid state intersync,

Amtec\* time element compensator, Colortec\*, video head assembly, head air supply. □ See your Ampex representative now, or see us at the NAB show in Chicago, March 27, 28, 29 and 30. □ (That monitor? We showed color to make a point; it's actually a monochrome Conrac CLD-14.)

**AMPEX**